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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,254	07/31/2003	Kenneth W. Junk	06005/39548	1586
4743	7590	11/20/2006	EXAMINER	
MARSHALL, GERSTEIN & BORUN LLP 233 S. WACKER DRIVE, SUITE 6300 SEARS TOWER CHICAGO, IL 60606			RAYMOND, EDWARD	
			ART UNIT	PAPER NUMBER
			2857	

DATE MAILED: 11/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/631,254	Applicant(s) JUNK ET AL.	
	Examiner Edward Raymond	Art Unit 2857	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>20050121, 20031114</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claims 1-22** are rejected under 35 U.S.C. 102(b) as being anticipated by Keyes, IV et al.

Keyes, IV et al. teach a diagnostic system for a field device in a process control apparatus (Claims 1, 11, 17, 17 and 22: see paragraph 12), comprising: at least one sensor associated with the process control apparatus (Claims 1, 11, 17, 17 and 22: see paragraph 23); a computer located on the field device and adapted to receive data from the sensor and to detect an occurrence of a predetermined process event (Claims 1, 11, 17, 17 and 22: see paragraph 23); and a memory device operatively connected to the computer and adapted to store sensor data received by the computer at a time corresponding to the occurrence of the predetermined process event (Claims 1, 11, 17, 17 and 22: see paragraphs 23 and 67).

Keyes, IV et al. teach a diagnostic system wherein the memory device is further adapted to store sensor data received by the computer at times prior to the occurrence of the predetermined process event (Claims 2, 12 and 18: see paragraph 66).

Keyes, IV et al. teach a diagnostic system wherein the memory device is further adapted to store sensor data received by the computer at times subsequent to the occurrence of the predetermined process event (Claims 3 and 13: see paragraph 66)

Keyes, IV et al. teach a diagnostic system wherein the memory device is further adapted to, store sensor data received by the computer at times prior to the occurrence of the predetermined process event and subsequent to the occurrence of the predetermined process event (Claims 4 and 14: see paragraph 66).

Keyes, IV et al. teach a diagnostic system wherein the computer is a microcontroller located on the field device (Claim 5: see paragraph 23).

Keyes, IV et al. teach a diagnostic system of claim 1, wherein the memory device is located on the field device (Claim 6: see paragraph 23).

Keyes, IV et al. teach a diagnostic system wherein the memory device is a non-volatile RAM (Claims 7: see paragraph 78).

Keyes, IV et al. teach a diagnostic system wherein the field device is a valve positioner (Claim 8: see paragraph 24).

Keyes, IV et al. teach a diagnostic system wherein the predetermined process event is an excessive travel deviation of a valve element (Claims 9, 15, 19 and 21: see paragraph 24).

Keyes, IV et al. teach a diagnostic system wherein the predetermined process event is a sensor signal, representing a sensed valve parameter, crossing a cutoff point (Claims 10, 16 and 20: see paragraph 24).

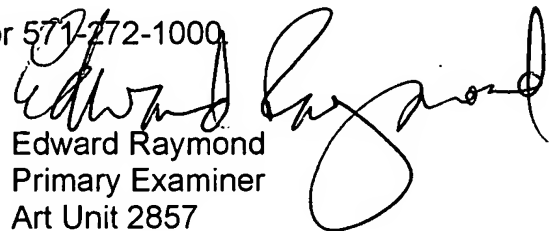
Contact Information

Art Unit: 2857

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Raymond whose telephone number is 571-272-2221. The examiner can normally be reached on M-F 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc Hoff can be reached on 571-272-2216. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Edward Raymond
Primary Examiner
Art Unit 2857

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